ORDER NO. MD0512472C7
A1

Service Manual

Speaker System

SB-PC40P

Colour
(S)... Silver Type

SB-PC40

SPECIFICATIONS

Specification

Type	1 way, 2 speakers (Bass-ref.)
Speaker unit	Impedance 6 Ω
Full range	6.5 cm (2-1/2") Cone type x 2
Input power (IEC)	220 W (Max)
Output sound pressure level	82 dB/W (1.0 m)
Frequency range	110 Hz - 50 kHz (-16 dB) 140 Hz - 45 kHz (-10 dB)
Dimensions (W x H x D)	270 mm x 92 mm x 95.4 mm 10-5/8" x 3-5/8" x 3-3/4"
Mass	1.3 kg (2.9 lb.)

■ System : SC-HT40EE-S

Front Speaker : SB-PF40P-S
Surround Speaker : SB-PS40P-S
Center Speaker : SB-PC40P-S
Subwoofer : SB-W40P-S
Music Center : SA-HT40EE-S

■ System : SC-HT40GN-S

Front Speaker : SB-PF41GN-S
Surround Speaker : SB-PS41GN-S
Center Speaker : SB-PC40P-S
Subwoofer : SB-W40P-S
Music Center : SA-HT40GN-S

Notes :

1. Specifications are subject to change without notice. / Mass and dimensions are approximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.

■ System : SC-HT40P-S

Music Center : SA-HT40P-S
Front Speaker : SB-PF40P-S
Surround Speaker : SB-PS40P-S
Center Speaker : SB-PC40P-S
Subwoofer : SB-W40P-S

■ System : SC-HT40PC-S

Front Speaker : SB-PF41GN-S
Surround Speaker : SB-PS41GN-S
Center Speaker : SB-PC40P-S
Subwoofer : SB-W40P-S
Music Center : SA-HT40PC-S

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1. Assembling and Disassembling

"ATTENTION SERVICER"
Some chassis components may have sharp edges. Be careful when disassembling and servicing.

1. This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
2. For reassembly after operation checks or replacement, reverse the respective procedures.
   Special reassembly procedures are described only when required.

3. **Select items from the following index when checks or replacement are required.**
4. **Refer to the Parts No. on the page of "Parts Location and Replacement Parts List" (Section 5), if necessary.**

Caution:

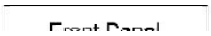
Original screws should be used.

Below is the list of disassembly sections

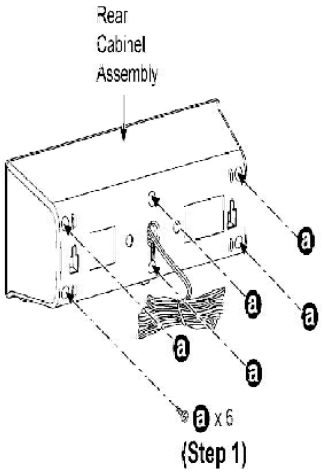
- **Disassembly of Front Panel Assembly**
- **Disassembly of Woofer 1**
- **Disassembly of Woofer 2**
- **Disassembly of Network Assembly**

1.1. Disassembly flow chart

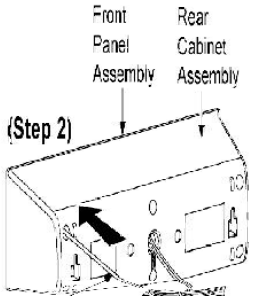
The following chart is the procedure for disassembling the casing and inside parts for internal inspection when carrying out the servicing.
To assemble the unit, reverse the steps shown in the chart as below.



1.2. Disassembly of Front Panel Assembly



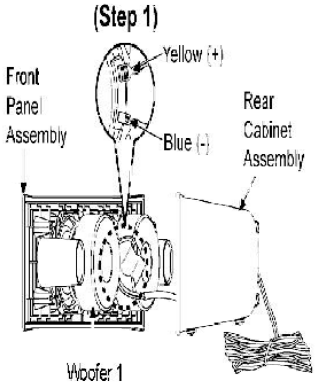
Step 1: Remove 6 screws from the Rear Cabinet Assembly.



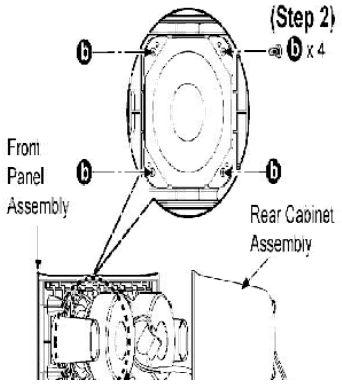
Step 2: Insert an Allen key into the top hole of the Front Panel Assembly as arrow shown.

1.3. Disassembly of Woofer 1

Follow (step 1) to (step 2) of Item 1.2.



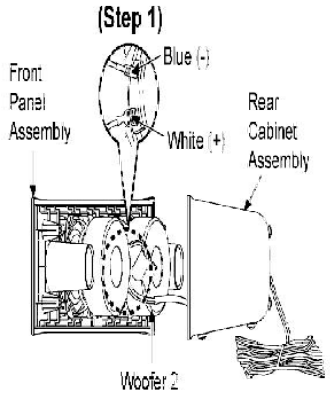
Step 1: Detach the (+) yellow and (-) blue wires from the Woofer 1.



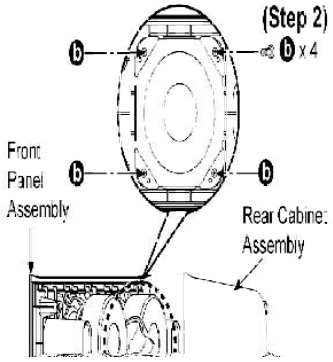
Step 2: Remove 4 screws from the Woofer 1.

1.4. Disassembly of Woofer 2

Follow (step 1) to (step 2) of Item 1.2.



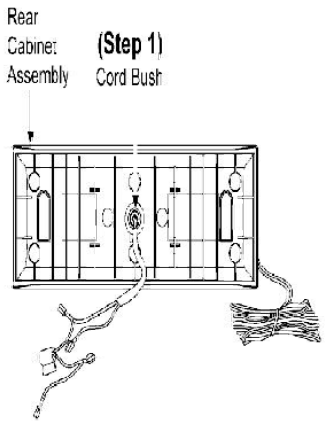
Step 1: Detach the (+) white and (-) blue wires from the Woofer 2.



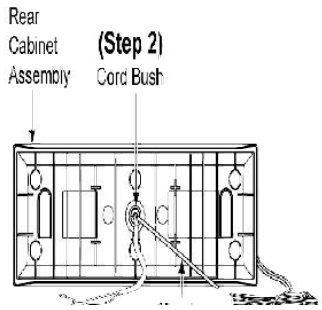
Step 2: Remove 4 screws from the Woofer 2.

1.5. Disassembly of Network Assembly

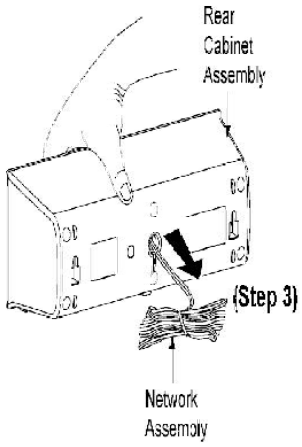
Follow (step 1) to (step 2) of Item 1.2.
Follow (step 1) of Item 1.3.
Follow (step 1) of Item 1.4.



Step 1: Remove glue from Cord Bush.



Step 2: Remove Cord Bush by pushing out with an Allen key.



Step 3: Hold the Rear Cabinet Assembly and remove Network assembly as arrow shown.

2. Connection of the Speaker Cables

- Be sure to connect speaker cables before connecting the AC power supply cord.

- The load impedance of any speaker used with this unit must be 6 .

- Be sure to connect the cable from the right speaker to the right terminal and the cable from the left speaker to the left terminal.

1. Strip off the outer covering, and twist the center conductor. Make sure the bare ends of the wires are not unravelled. (If they are, twist them tight again.)

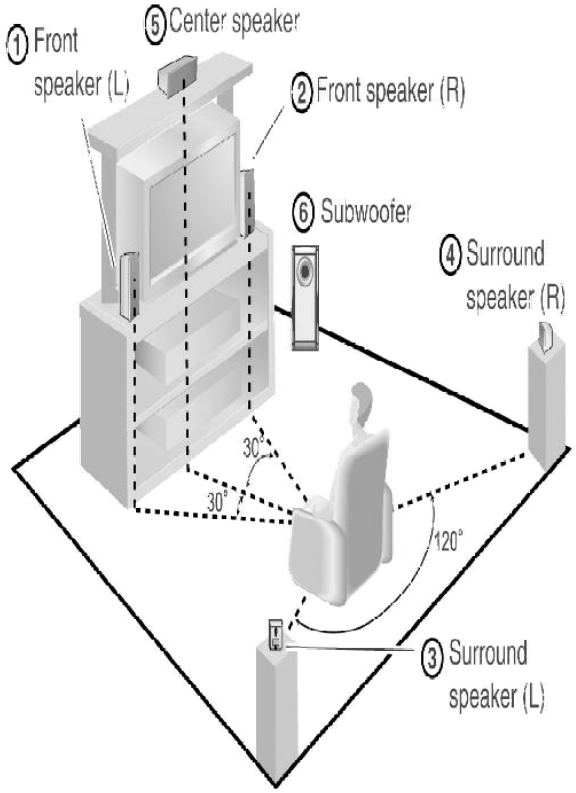
2. Insert the wire to the rear panel of the unit and close the lever.

Notes :

- To prevent damage to circuitry, never short-circuit positive (+) and

negative (-) speaker wires.

- Be sure to connect only positive (white) wires to positive (+) terminals and negative (blue) wires to negative (-) terminals. Incorrect connection can damage the speakers.



Positioning for best effect

How you set up your speakers can affect the bass and the sound field.

Note the following points.

- Place the speakers on flat secure bases.

- Placing speakers too close to floors, walls, and corners can result in excessive bass. Cover walls and windows with a thick curtain.

Note

Keep your speakers at least 10 mm (13/32") from the system for proper ventilation.

Place the front, center, and surround speakers at approximately the same distance from the seating position. The angles in the diagram are approximate.

Front speakers (left, right)

Place on the left and right of the TV at seated ear height so that there is good coherency between the picture and sound.

Center speaker

Place underneath or above the center of the TV. Aim the speaker at the seating area.

Surround speakers (left, right)

Place on the side of or slightly behind the seating area, higher than ear level.

The subwoofer can be placed in any position as long as it is a reasonable distance from the TV.

Note that some experimentation can yield the smoothest low frequency performance. Placement near a corner can increase the apparent output level, but can result in unnatural bass.

Subwoofer

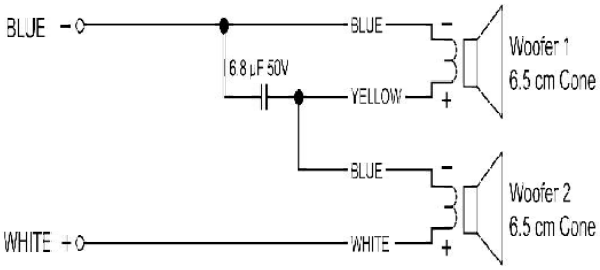
The subwoofer can be placed in any position as long as it is at a reasonable distance from the TV.

Note that some experimentation can yield the smoothest low frequency performance. Placement near a corner can increase the apparent output level, but can result in unnatural bass.

Caution

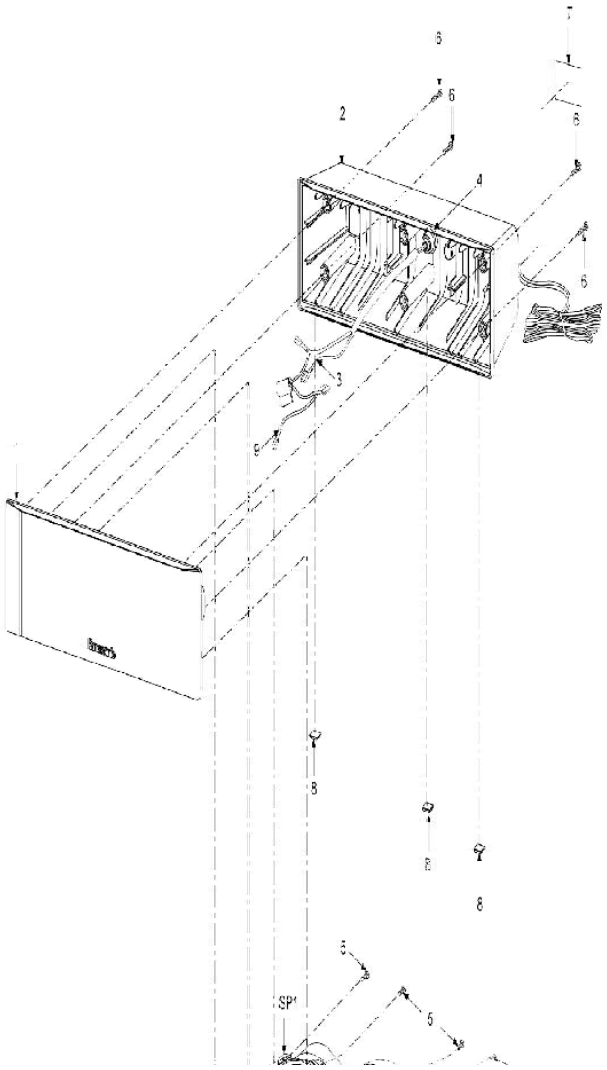
- The main unit and supplied speakers are only to be used as indicated in this manual. Failure to do so may lead to damage to the receiver and/or the speakers, and may result in the risk or fire. Consult a qualified service person if damage has occurred or if you experience a sudden change in performance.
- Do not attempt to attach these speakers to walls using methods other than those described in this manual.

3. Connection of Wiring Diagram



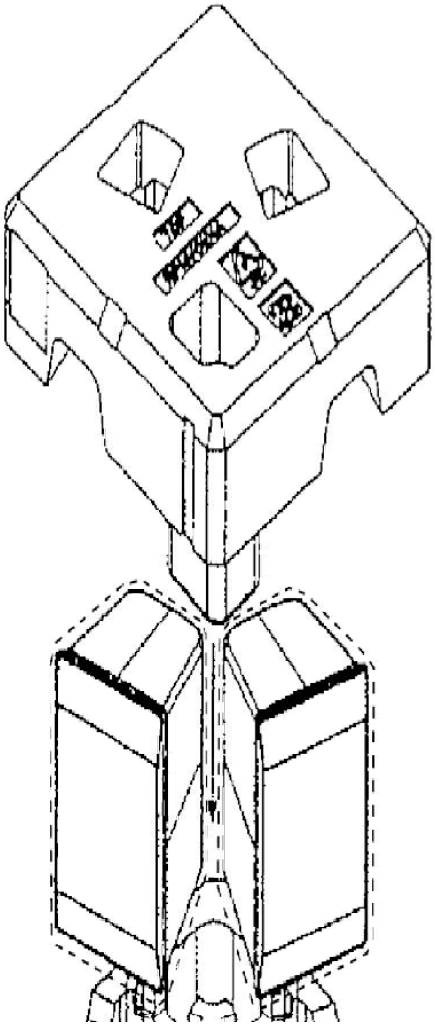
4. Exploded view

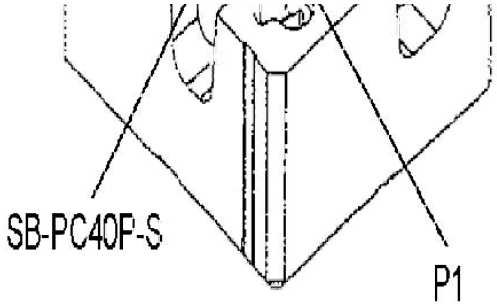
4.1. Cabinet Parts Location



4.2. Packaging

Note: The diagram below shows the packaging for SB-FSC40P-S.
Please also refer to Service Manual of SB-PS40P-S (MD0512474C1) for packaging.





SB-FSC40P-S consists of SB-PF40P-S (x2), SB-PS40P-S (x2) & SB-PC40P-S (x1).

5. Replacement Parts List

Notes :

- Important safety notice :

When replacing any of these components, be sure to use only manufacturer's specified parts shown in the parts list.

- [M] markings in the Remarks columns indicates parts supplied by PAVCSG.

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	RYPV0141	FRONT PANEL ASS'Y	[M]
2	RYKV0076	REAR CABINET ASS'Y	[M]
3	REEV0109	NETWORK ASS'Y	[M]
4	RGQ0259-K	CORD BUSH	[M]
5	XTB3+10GFN	SCREW	[M]
6	XTB3+12GFN	SCREW	[M]
7	RGNV0185-S	SPEC LABEL	[M]
8	RKA0072-KJ	LEG CUSHION	[M]
9	REEV0119	TRANSIT WIRE	[M]
		CAPACITORS	
C1	ECA1HAY6R8S	6.8uf 50V	[M]
		PACKING MATERIALS	
P1	RPFV0067	MIRAMAT	[M]
		SPEAKER	
SP1	EAS65P122C	WOOFER	[M]

FLE0512W/S